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threshold discriminator to filter background noise voltage x ray

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With this arrangement the line-to-**background** ratio for a wavelength of about ... **threshold voltage** is shown in figure 3. This **discriminator** works from about 5 ... suppression of scattered radiation and **noise** outside the spectral order n lines: if we **filter the x-ray** through a suitable thickness of ...

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Title

A constant fraction **discriminator** (CFD) is to provide a **threshold** against **noise** in ... The signal to **noise** ratio for a single **X ray** is about 20. ... Once the operation **voltage** is selected you will obtain a few **X-ray** images that will be ... The **background noise** and the detector sensitivity can \ vary over the image. ...

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Photon counting X-ray imaging with CdTe pixel detectors based on ...

compared to a **threshold** value in the **discriminator**. Inserted functions such as shaper or baseline ... The **threshold** has to be set over the **noise background**. ... The high **voltage** of **X-ray** generator is fixed at 100 kV. The ... **Filter 2. Filter 1**. Fig. 7. Linear characteristic of CdTe pixel detector for different flux ...

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Low cost digital pocket dosimeter - US Patent 7009182 Description

The 0.8 mm copper **filter** provides the necessary attenuation of the ... In this circuit, the **discriminator threshold** above the **noise** The **threshold voltage** adjusted through resistor 7 and potentiometer 8, to cut off the **noise** pulses. 250/370.07, Dose or dose rate measurement 250/370.09, **X-ray** or gamma-ray ...

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[PDF] A pixel readout chip for medical X-ray imaging

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The chip utilises a time-over-**threshold discriminator**; by tuning the shaping of the front- ... **Background noise** is discriminated by the Gate **voltage**, high pass-filter external. V thr. **Threshold voltage** external ...

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by F Edling - 2003 - Cited by 2 - Related articles

Testing an Energy-Dispersive Counting- Mode Detector With Hard X ...

integrating-mode devices in many fields of medical **x-ray** imaging. There are many reasons for a total count rate, i.e. all counts above the **noise threshold** were summed up. ... ever, a **discriminator** with a slightly higher **threshold voltage** is ... is on top of a 'white' **background**. Thus, the region above about ...

ieeexplore.ieee.org/iel5/23/4545063/04545071.pdf?arnumber=4545071 - [Similar pages](#)
by G Baumer - 2006 - Cited by 1 - Related articles

Low cost digital pocket dosimeter - Patent 7009182

Mar 7, 2006 ... Sankaran A. et al., "Microprocessor-based Diagnostic **X-Ray** Beam Quality Assurance electrical pulses c) means to discriminate (a **discriminator**) and **filter** out